What is claimed is:

1. A process for preparing phosphonate-modified organosiloxanes of the general formula (I):

$$(SiO_{4/2})_k (RSiO_{3/2})_m (R_2SiO_{2/2})_p (R_3SiO_{1/2})_q [O_{1/2}H]_t$$

$$[(O_{f/2}R^1_{3-f}SiCR^2_2P(0)(OR^4)_2]_s$$
(I)

in which

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- is a hydrogen atom or a monovalent, optionally -CN-, -NCO-, $-NR^5{}_2-$, -COOH-, $-COOR^5-$, -halogen-, -acryloyl-, -epoxy-, -SH-, -OH- or $-CONR^5{}_2-$ substituted Si-C-bonded $C_1-C_{20}-$ hydrocarbyl radical or $C_1-C_{15}-$ hydrocarboxy radical in which one or more nonadjacent methylene units in each case may be replaced by -O-, -CO-, -COO-, -OCO-, -OCOO-, -S- or $-NR^5-$ groups and in each of which one or more nonadjacent methine units may be replaced by -N=, -N=N- or -P= groups,
- is a hydrogen atom or a monovalent, optionally R^1 $-COOR^5-$, -halogen-, -CN-, -NCO-, -COOH-, -acryloyl-, -SH-, -OH- or -CONR⁵₂-substituted Si-Cbonded C_1-C_{20} -hydrocarbyl radical or $C_{1}-C_{15}$ hydrocarboxy radical in which one or more 25 nonadjacent methylene units in each case may be replaced by -O-, -CO-, -COO-, -OCO-, -Sor -NR5- groups and in each of which one or more nonadjacent methine units may be replaced by -N=, -N=N- or -P= groups, 30
 - ${f R}^2$ is hydrogen or an optionally -CN- or halogensubstituted C_1-C_{20} -hydrocarbyl radical,
 - $\mathbf{R^4}$ is an optionally -CN- or halogen-substituted C_{1-} C_{20} -hydrocarbyl radical or hydrocarboxy radical,
- 35 \mathbf{R}^5 is hydrogen or an optionally -CN- or halogen-substituted C_1 - C_{10} -hydrocarbyl radical or substituted or unsubstituted polyalkylene oxides having from 1 to 4000 carbon atoms,

- k is an integer from 0 to 100 000,
- m is an integer from 0 to 100 000,
- p is an integer from 0 to 100 000,
- q is an integer from 0 to 100 000,
- 5 \mathbf{f} is an integer of 1, 2 or 3,
 - s is an integer of at least 1 and
 - t is an integer of at least 0,

where

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 $\mathbf{k} + \mathbf{m} + \mathbf{p} + \mathbf{q}$ is an integer of at least 1,

characterized in that

15 functional silanes of the formula (III):

$$[(R^{3}O)_{f}R^{1}_{3-f}SiCR^{2}_{2}P(O)(OR^{4})_{2}]$$
 (III)

are reacted with water alone or together with silanes 20 of the general formula (IV):

$$[(R^{3}O)_{q}R^{1}_{4-q}Si]$$
 (IV)

where

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- ${f R}^3$ is hydrogen or an optionally -CN- or halogensubstituted $C_1 C_{20} {
 m hydrocarbyl}$ radical and
- g is an integer of 1, 2, 3 or 4 and
- 30 R, R^1 , R^2 , R^4 , k, m, p, q, f and s are each as defined above.
- 2. The process as claimed in claim 1, characterized in that alkoxysilanes of the general formula (III) react with water to give Si-OH-functional compounds which condense further with one another to give cyclic, linear, branched or crosslinked organopolysiloxanes or organopolysiloxane resins.

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- 3. The process as claimed in claim 1, characterized in that alkoxysilanes of the general formula (III) react with silanes of the general formula (IV) and water to give Si-OH-functional compounds which condense further with one another to give cyclic, linear, branched or crosslinked organopolysiloxanes or organopolysiloxane resins.
- 4. The process as claimed in claim 2 or 3, 10 characterized in that a catalyst is used.
 - 5. The process as claimed in at least one of claims 1 to 4, characterized in that the process is carried out at from 10 to 80° C.
- 6. The process as claimed in at least one of claims 1 to 5, characterized in that solvents are selected from the group comprising aliphatic hydrocarbons, heptane, decane, aromatic hydrocarbons, toluene, xylene, ether, tetrahydrofuran, diethyl ether, tert-butyl methyl ether, ketones, acetone and 2-butanone.
 - 7. The process as claimed in at least one of claims 1 to 5, characterized in that no solvent is added.
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 8. The process as claimed in at least one of claims 1 to 7, characterized in that
- R is a methyl, ethyl, vinyl or trifluoropropyl
 30 radical,
 - R^1 is a methyl or ethyl radical,
 - ${\bf R}^{\bf 2}$ is hydrogen,
 - \mathbf{R}^3 is a methyl or ethyl radical,
- R⁴ is a substituted or unsubstituted methyl, butyl,
 phenyl or cyclohexyl radical,
 - $\boldsymbol{R^5}$ is hydrogen or a substituted or unsubstituted $C_1\text{-}$ $C_5\text{--alkyl}$ radical,
 - k is 0,

- \mathbf{m} is 0,
- p is an integer from 5 to 500,
- **q** is 1 or 2,
- f is an integer of 1, 2 or 3,
- 5 **s** is an integer of from 2 to 10 and
 - t is an integer of at least 0.
- 9. The process as claimed in at least one of claims 1 to 8, characterized in that the sum of ${\bf k} + {\bf m} + {\bf p} + {\bf q}$ is an integer of at least 3.
- 10. The use of the phosphonate-modified organosiloxanes of the general formula (I) obtainable according to at least one of claims 1 to 9 as an additive in elastomers, additive in siloxane elastomers or antistatic additive in siloxane elastomers.